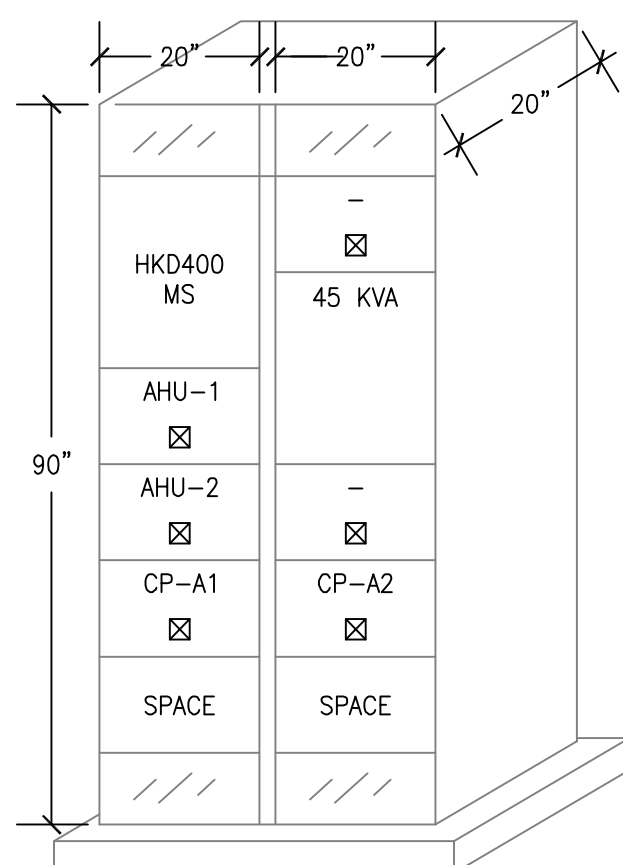
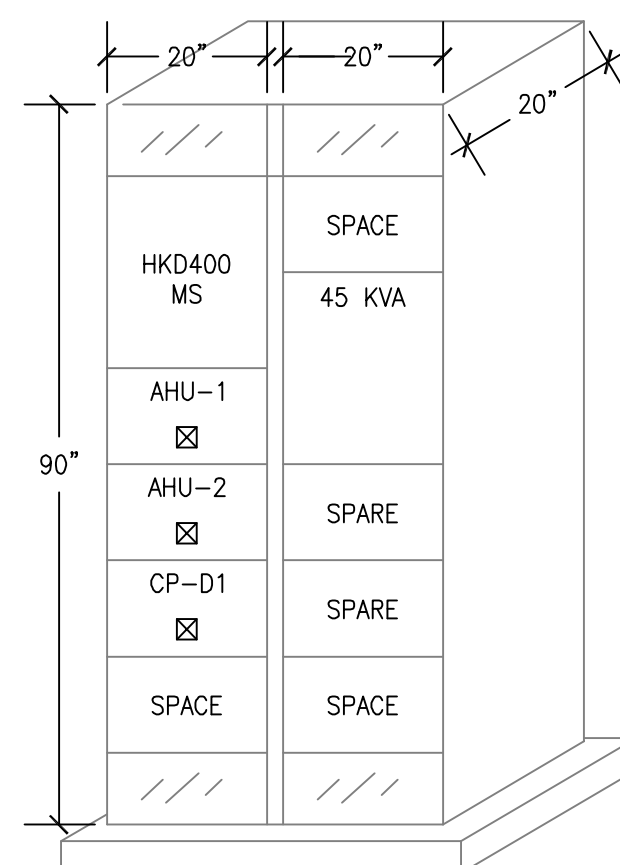


EX. MAIN SWITCHBOARD BLDG. 320
480Y/277V-3PH-4W SCALE: 1/2" = 1'-0"

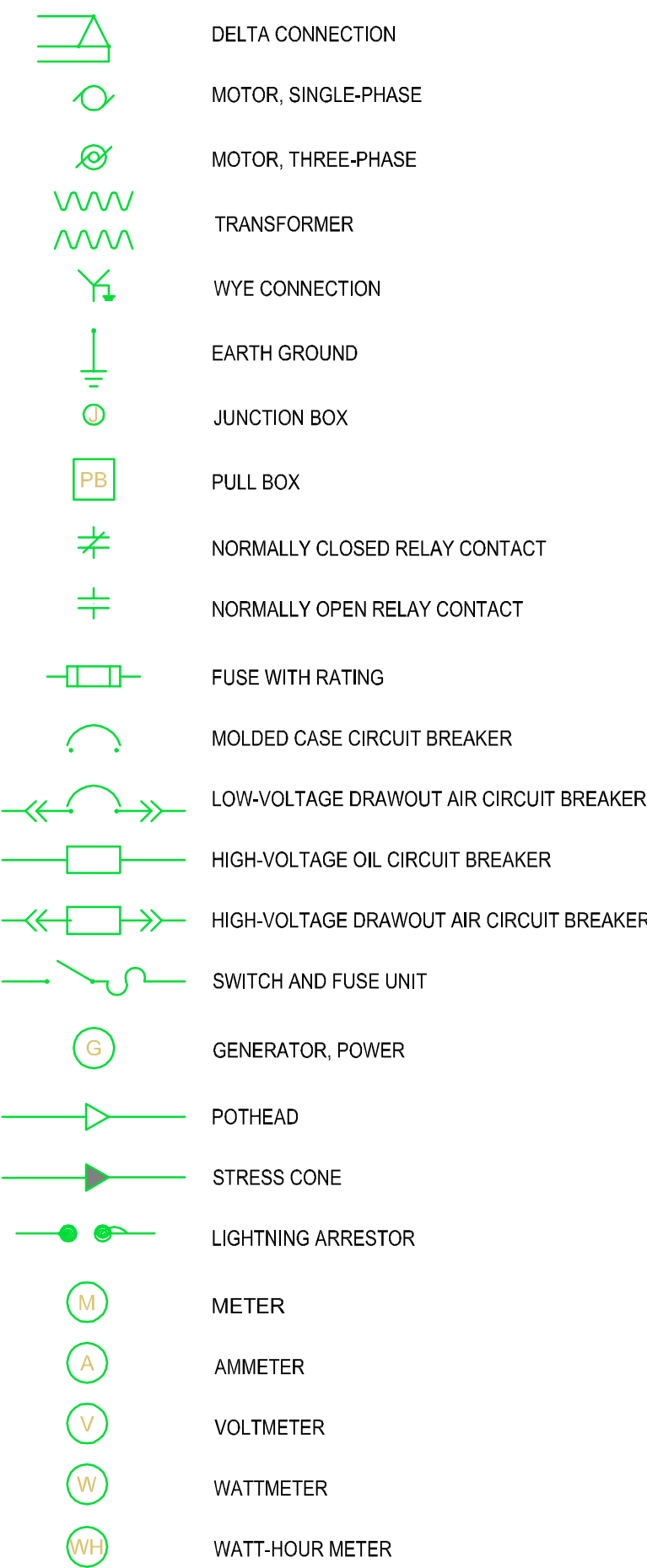


C/H 2100
EX. MOTOR CONT. CENTER MCP-A
480Y/277V-3PH-4W



C/H 2100
EX. MOTOR CONT. CENTER MCP-D
480Y/277V-3PH-4W

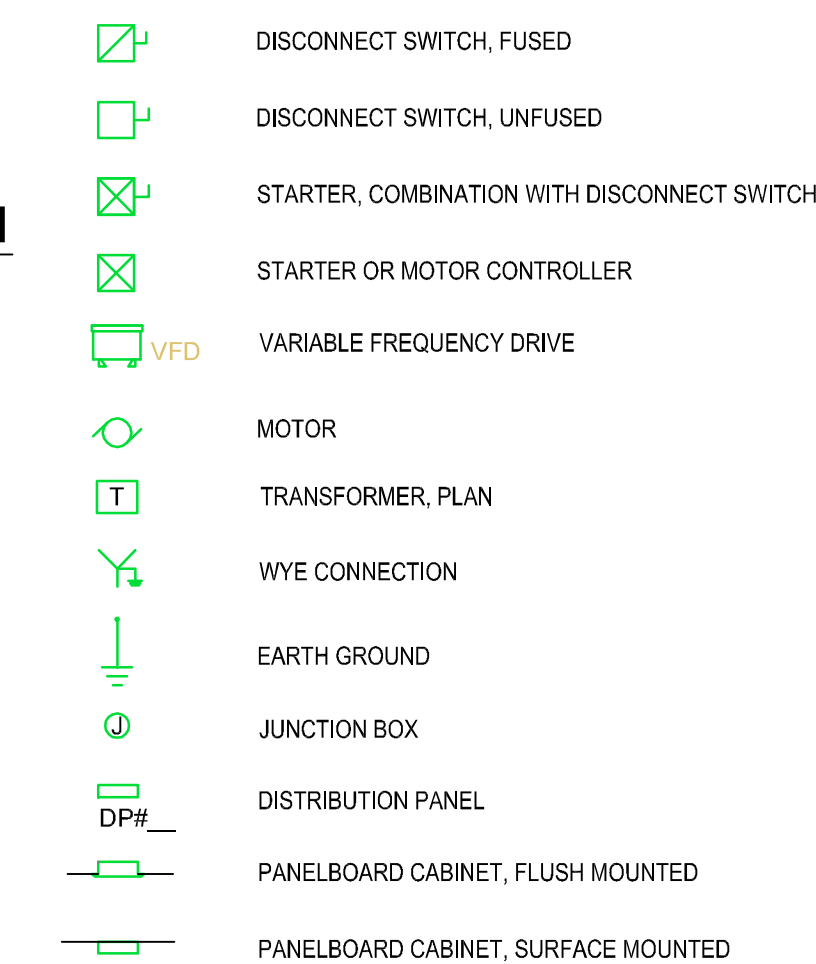
ELECTRICAL SYMBOLS - DIAGRAM



ABBREVIATIONS

AAP	- AREA ALARM PANEL - MEDICAL GAS	ID	- INSIDE DIAMETER
CC	- ACCESS	IN	- INCHES
ADJ	- ADJUSTABLE	KEC	- KITCHEN EQUIPMENT CONTRACTOR
AF	- ARC FAULT CIRCUIT INTERRUPTER	L	- LENGTH
AFCI	- ARC FAULT CIRCUIT INTERRUPTER	LBS	- POUNDS
AFF	- ABOVE FINISHED FLOOR TO BOTTOM OF ITEM	MAP	- MASTER ALARM PANEL (MEDICAL GAS)
AFG	- ABOVE FINISHED GRADE TO BOTTOM OF ITEM	MAX	- MAXIMUM
ALT	- ALTERNATE	MEZ	- MEZZANINE
AP	- ACCESS PANEL	MFR	- MANUFACTURER
APPROX	- APPROXIMATE	MH	- MINIMUM OR MINUTE
ARCH	- ARCHITECT OR ARCHITECTURAL	MISC	- MISCELLANEOUS
ASSY	- ASSEMBLY	MTD	- MOUNTED
ATS	- AUTOMATIC TRANSFER SWITCH	MTG	- MOUNTING
BLDG	- BUILDING	NIC	- NOT IN CONTRACT
BOE	- BOTTOM OF EQUIPMENT	NOM	- NOMINAL
BOT	- BOTTOM	NTS	- NOT TO SCALE
BTWN	- BETWEEN	OCFI	- OWNER FURNISHED CONTRACTOR INSTALLED
CFCI	- CONTRACTOR FURNISHED CONTRACTOR INSTALLED	OFDI	- OWNER FURNISHED OWNER INSTALLED
CKT	- CIRCUIT	PC	- PLUMBING CONTRACTOR (DIVISION 22)
CLO	- CEILING	PLBG	- PLUMBING
CMU	- CONCRETE MASONRY UNIT	SC	- SURFACE MOUNTED
CONN	- CONNECT OR CONNECTION	SHT	- SHEET
CONTR	- CONTRACTOR	SMS	- SECURITY MANAGEMENT SYSTEM
CORR	- CORRIDOR	SPEC	- SPECIFICATIONS
CTR	- CENTER	SQ	- SQUARE
COR	- CONTRACTING OFFICER'S REPRESENTATIVE	SS	- STAINLESS STEEL
D	- DEPTH	STD	- STANDARD
DET	- DETAIL	STUC	- STRUCTURAL OR STRUCTURE
DI	- DIAMETER	SUC	- SITE UTILITY CONTRACTOR
DM	- DIMENSION	TC	- TECHNOLOGY CONTRACTOR
DIV	- DIVISION	TEMP	- TEMPERATURE
DWG	- DRAWING	TOE	- TOP OF EQUIPMENT
EA	- EACH	TYP	- TYPICAL
EC	- ELECTRICAL CONTRACTOR (DIVISION 26)	UNO	- UNLESS NOTED OTHERWISE
EJ	- EXPANSION JOINT	VFD	- VARIABLE FREQUENCY DRIVE
ELEC	- ELECTRICAL	VOL	- VOLUME
ELEV	- ELEVATION OR ELEVATOR	W	- WITH
EM	- EMERGENCY	WO	- WITHOUT
EQ	- EQUIPMENT	WP	- WEATHERPROOF
EQS	- EQUIPMENT SUPPLIER	ZVC	- ZONE VALVE CABINET
EQUIP	- EQUIPMENT		
ETR	- EXISTING TO REMAIN		
EX	- EXISTING		
EXP	- EXPANSION		
EXT	- EXTERIOR		
FCE	- FIRE CONTROL EQUIPMENT		
FF	- FINISHED FLOOR ELEVATION		
FLR	- FLOOR		
FSC	- FIRE SUPPRESSION CONTRACTOR (DIVISION 21)		
FT	- FEET		
FTG	- FOOTING		
GC	- GENERAL CONTRACTOR		
GF	- GROUND FAULT CIRCUIT INTERRUPTER		
GFCI	- GROUND FAULT CIRCUIT INTERRUPTER OR GOVERNMENT FURNISHED CONTRACTOR INSTALLED		
GFF	- GROUND FAULT FEED THRU		
HC	- HVAC CONTRACTOR (DIVISION 23)		
HP	- HORSE POWER OR HIGH POINT		
HVAC	- HEATING, VENTILATING, AND AIR CONDITIONING		

ELECTRICAL SYMBOLS - POWER PLAN



SEQUENCE OF CONSTRUCTION

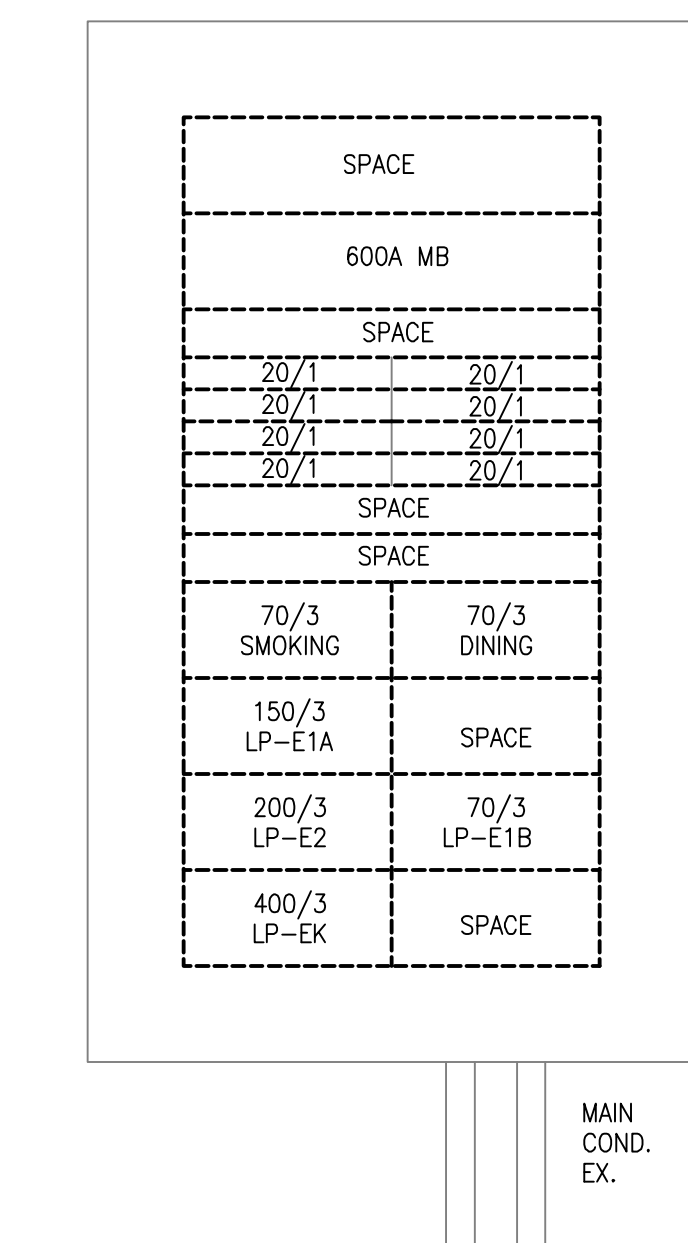
- GENERAL NOTES:
- SEQUENCE OF CONSTRUCTION INDICATED BELOW IS ONE POSSIBLE SOLUTION TO MINIMIZE DOWNTIME OF THE BUILDING ELECTRICAL SYSTEM. CONTRACTOR IS REQUIRED TO SUBMIT A DETAILED SEQUENCE OF OPERATIONS TO THE COR AT THE BEGINNING OF THE PROJECT. DEVIATIONS FROM THE FOLLOWING PROPOSED SEQUENCE OF CONSTRUCTION WILL BE REVIEWED, BUT WILL NOT BE GROUNDS FOR ADDITIONAL COST TO THE GOVERNMENT. PROPOSED SEQUENCE OF CONSTRUCTION MUST BE APPROVED BY THE COR PRIOR TO COMMENCEMENT OF WORK. NOT ALL WORK TO BE DETAILED ON DRAWINGS IS INDICATED IN SEQUENCE, BUT SHALL BE COMPLETED.
 - ALL CUTOVER WORK REQUIRING BUILDING ELECTRICAL SYSTEM DOWNTIME SHALL BE DONE OUTSIDE OF NORMAL WORKING HOURS (NIGHTS). DURING MILD WEATHER MINIMAL HEATING/COOLING LOAD, AND SHALL BE COORDINATED WITH COR WELL IN ADVANCE.
 - DETAILED SITE INVESTIGATION OF ALL AREAS OF WORK SHALL BE PERFORMED INCLUDING REMOVING PANELBOARD/DISTRIBUTION PANELBOARD COVERS, CEILING TILES, ETC. TO VERIFY EXISTING CONDITIONS, NEW EQUIPMENT LOCATIONS, FEEDER ROUTES, ETC. CONTRACTOR SHALL THEN SUBMIT A DETAILED SEQUENCE OF CONSTRUCTION PLAN INDICATING ESTIMATED CUTOVER DATES, POWER OUTAGES AND PROJECT MILESTONES. PROJECT PLAN SHALL BE REVIEWED WITH KEY BUILDING STAFF AND COR AND ADJUSTED BASED ON THEIR INPUT.
 - 21 DAYS BEFORE ANY CUTOVER WORK IS PERFORMED, CONTRACTOR SHALL SET UP A MEETING WITH COR AND DEPARTMENT MANAGER OF AREA AFFECTED BY OUTAGE. CONTRACTOR SHALL REVIEW ALL PANELS WHICH WILL BE AFFECTED, START AND END TIMES OF OUTAGE AND ROUGHLY WHICH LOADS WILL BE DOWN DURING CUTOVER WORK.
 - FOR BUILDING-WIDE OUTAGES, PROVIDE 100KW, 208Y/120V-3PH-4W PORTABLE DIESEL GENERATOR (LOCATED NEAR CHILLERS) AND TEMPORARY POWER CABLEING TO A 100 AMP LOAD CENTER LOCATED IN EACH WING (A-E). RUN TEMPORARY CABLEING WITH RECEPTACLES APPROXIMATELY 40' O.C. DOWN EACH CORRIDOR FOR SELECTED LOADS THAT NEED TO REMAIN ON DURING OUTAGE. CABLEING SHALL NOT BE INSTALLED BEFORE 10PM. FOR PANELBOARD/TRANSFORMER OUTAGES, PROVIDE SAME AS ABOVE WITH RECEPTACLES IN CORRIDOR IN VICINITY OF POWER OUTAGE ONLY. REMOVE ALL TEMPORARY CABLEING BEFORE 7AM.
- PHASE 1: PERFORM SITE GRADING, INSTALL GRAVEL ROAD, FOUR GENERATOR CONCRETE PAD, INSTALL NEW EMERGENCY GENERATOR AND PERFORM 100K KW LOAD BANK TEST. INSTALL NEW LIFE SAFETY BRANCH (ATS, TRANSFORMER, DISTRIBUTION PANEL AND PANELBOARDS). ROUGH-IN ATSCR EMERGENCY FEEDER FROM NEW GENERATOR TO ATSCR AND MAKE READY FOR CUTOVER. DE-ENERGIZE NORMAL SOURCE TO ATSCR, DISCONNECT EXISTING EMERGENCY FEEDER AND PULLBACK CONDUCTORS, TERMINATE NEW EMERGENCY FEEDER CONDUITS/CONDUCTORS TO ATSCR (INCLUDING START SIGNAL) AND RE-ENERGIZE ATSCR NORMAL SOURCE. ATSCR LOAD SIDE SHALL BE DE-ENERGIZED FOR NO LONGER THAN 2 HOURS. INDICATED BRANCH CIRCUITS CAN THEN BE TRANSFERRED TO LIFE SAFETY PANELS ONE AT A TIME. CUTOVER SHALL BE PERFORMED AT NIGHT. RECONNECT EXISTING GENERATOR FEEDER TO ATSCR IF ISSUE ARISES WITH NEW FEEDER/GENERATOR.
- PHASE 2: PREP WING A, B, C AND D ELECTRICAL CLOSETS FOR TRANSFORMER REPLACEMENT. POUR CONCRETE PAD EXTENSIONS, RELOCATE LIFE ALARM PANELS, ROUGH-IN NEW ENCLOSED CIRCUIT BREAKERS, PRIMARY AND SECONDARY FEEDER CONDUITS, ETC. FOR NEW 75 KVA TRANSFORMERS. ROUGH-IN NEW 1x1x10 DISCONNECT SWITCHES. PRIMARY AND SECONDARY FEEDER CONDUITS (FOR 1x1x10 EM TRANSFORMERS) AND MAKE CUTOVERS ONE WING AT A TIME. 1x1x10 LOAD SHALL BE DE-ENERGIZED FOR NO LONGER THAN 2 HOURS. CUTOVER SHALL BE PERFORMED AT NIGHT.
- PHASE 3: REMOVE 112.5 KVA TRANSFORMERS, FUSIBLE DISCONNECT SWITCHES, PRIMARY AND SECONDARY FEEDERS AND INSTALL NEW 75 KVA TRANSFORMER. MAKE FINAL PRIMARY AND SECONDARY CONNECTIONS. 1x1x10 LOAD SHALL BE DE-ENERGIZED FOR NO MORE THAN 6 HOURS. CUTOVER SHALL BE PERFORMED AT NIGHT.
- PHASE 4: REMOVE PANELBOARD INTERIOR/COVERS SCHEDULED FOR REPLACEMENT AND PROVIDE NEW INTERIOR/COVERS AS INDICATED. PANELS SHALL BE REPLACED ONE AT A TIME TO MINIMIZE WING OUTAGE. PANELS INDICATED TO BE REPLACED WHERE AN UPSTREAM OUTAGE/CUTOVER IS REQUIRED SHALL BE REPLACED AT THAT TIME (WITH THE EXCEPTION OF BUILDING WIDE OUTAGES). PANELS THAT DO NOT, SHALL BE REPLACED (DE-ENERGIZED) FOR NO LONGER THAN 3 HOURS AT NIGHT.
- PHASE 5: REPLACE EXTERIOR LIGHTS AND REMAINDER OF WORK INDICATED.

DETAIL NOTES

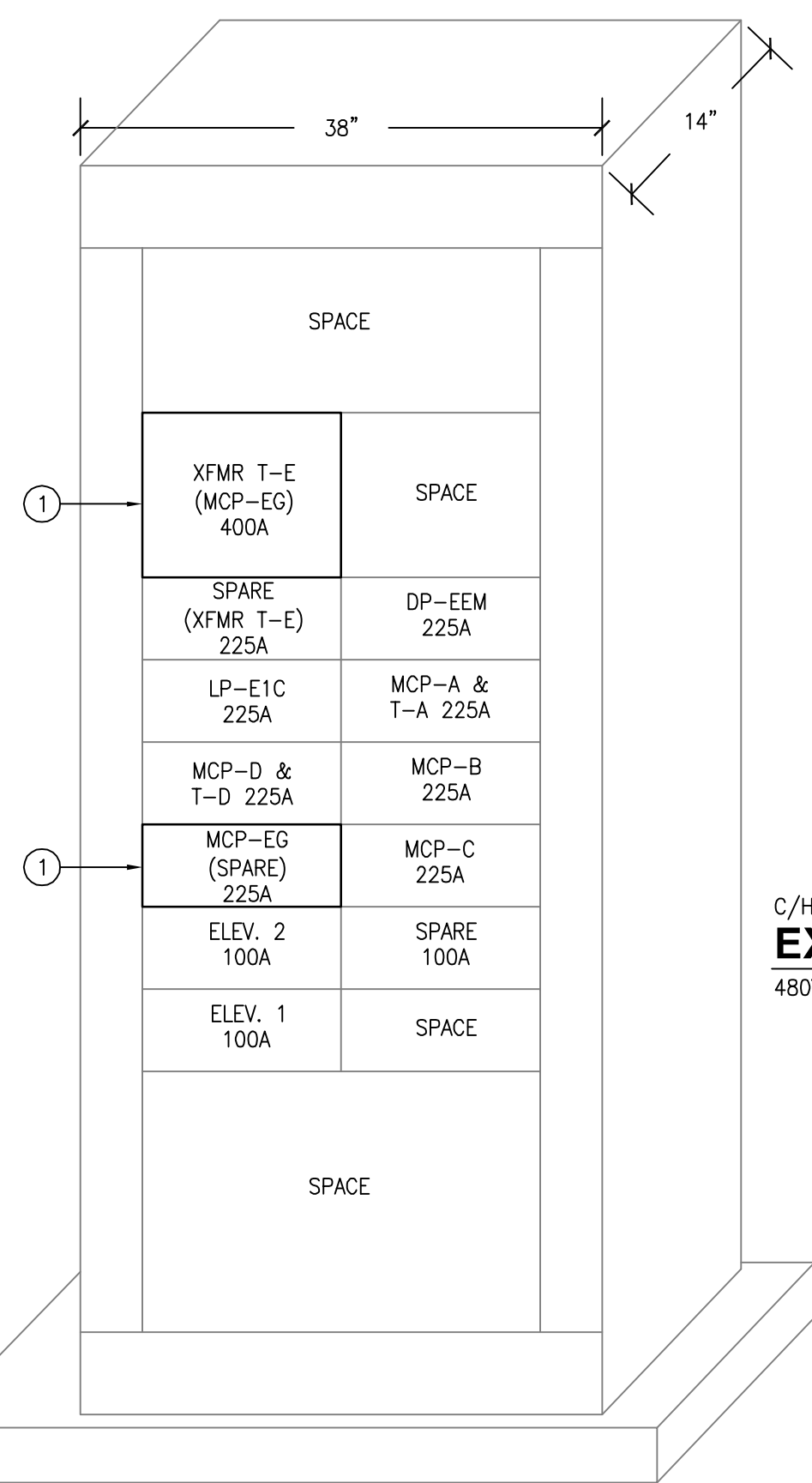
- UTILIZE BREAKER FOR LOAD INDICATED. LOAD IN (PARENTHESES) IS EXISTING LOAD TO BE REMOVED.

GENERAL NOTES

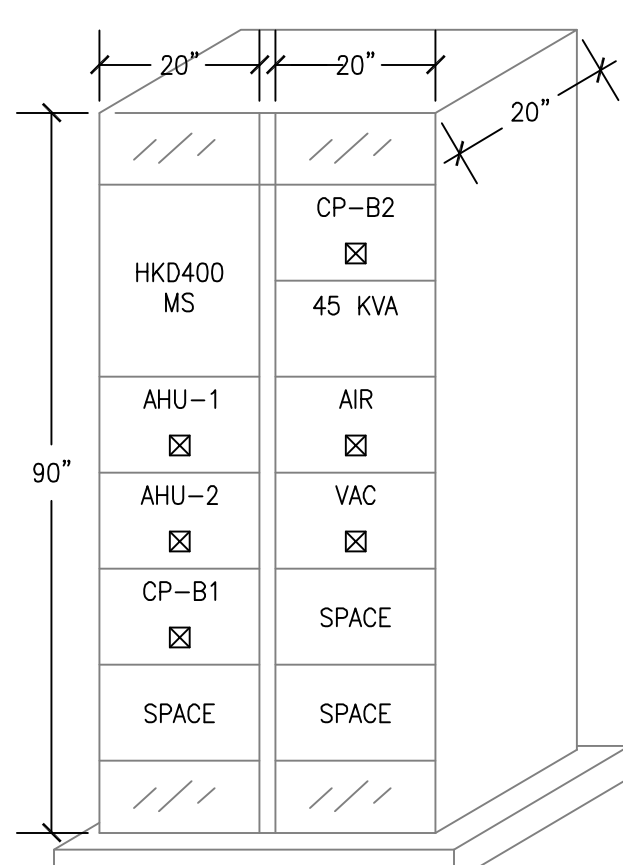
- VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO DEMOLITION, FABRICATION, ERECTION AND CONSTRUCTION.
- DRAWING REPRESENTS GENERAL INTENT. MINOR VARIATIONS MAY BE REQUIRED TO COMPLETE WORK.
- COORDINATE PHASE COMPLETION AND START-UP WITH REQUIREMENTS AS SET FORTH BY THE C.O.R. TO MAINTAIN DAILY OPERATIONS TO NEAR AS NORMAL AS POSSIBLE.
- COORDINATE ACCESS TO ALL PHASES OF CONSTRUCTION, DELIVERIES, AND DEBRIS REMOVAL WITH THE C.O.R. SEE GENERAL REQUIREMENTS.
- PROVIDE AND MAINTAIN NEGATIVE AIR PRESSURE WITH HEPA FILTRATION AT ALL CONSTRUCTION AREAS.
- EXISTING POWER MUST BE MAINTAINED THROUGHOUT AS REQUIRED DURING EACH PHASE OF CONSTRUCTION.
- COORDINATE POWER CUTOVERS/OUTAGES WITH THE C.O.R. COORDINATE SEQUENCE CONSTRUCTION WITH C.O.R. SO THAT ONLY ONE SIDE OF ANY CORRIDOR IN USE IS OBSTRUCTED AT ANY ONE TIME.



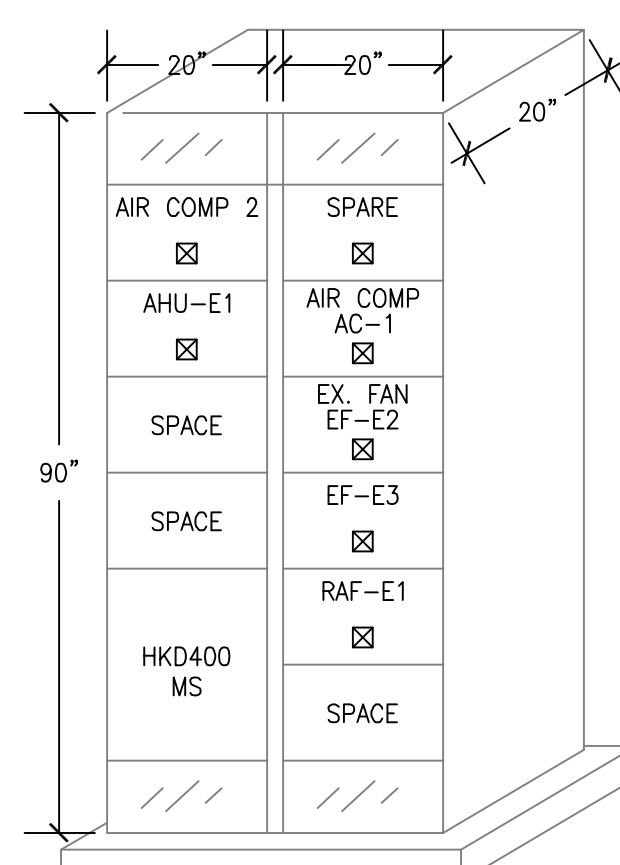
(TO BE REMOVED)
DIST. PANEL DP-1
208Y/120V-3PH-4W



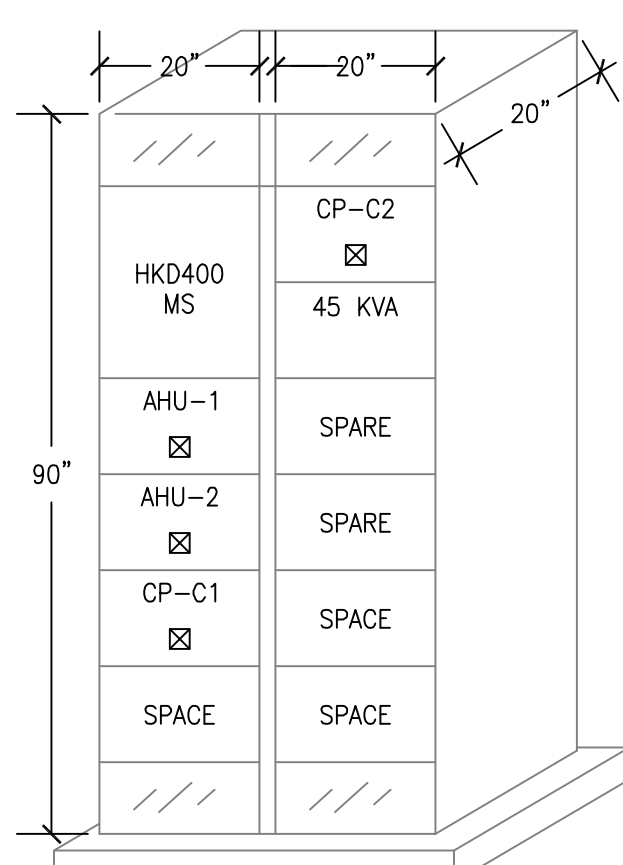
EX. DIST. PANEL 320E-1
480Y/277V-3PH-4W



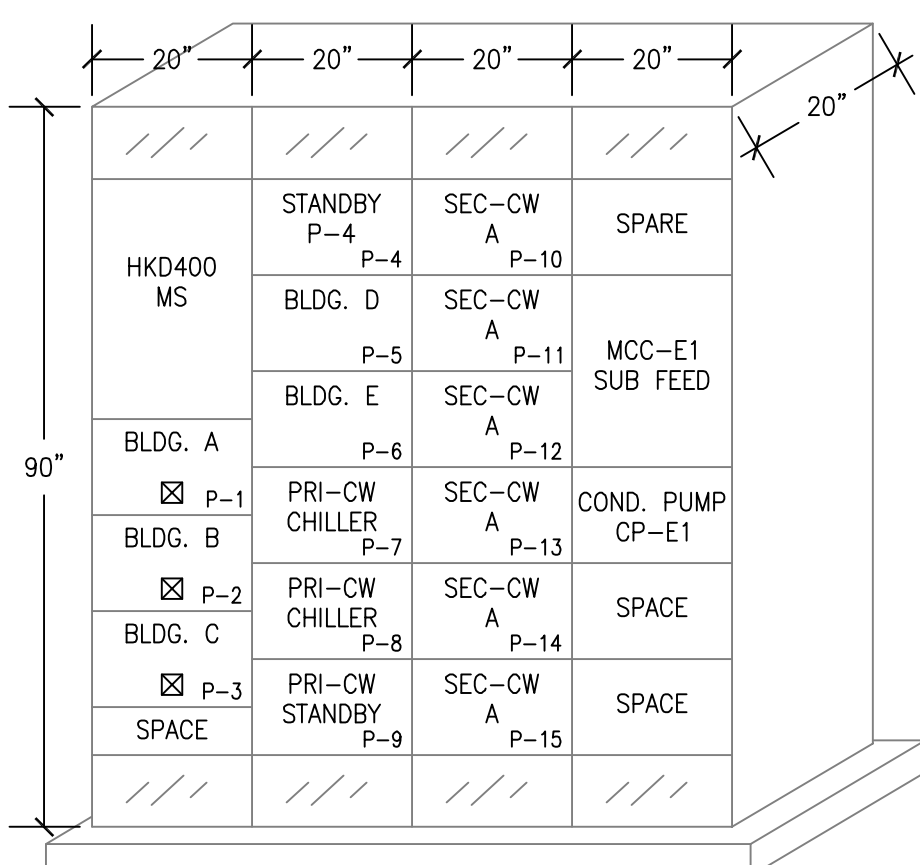
C/H 2100
EX. MOTOR CONT. CENTER MCP-B
480Y/277V-3PH-4W



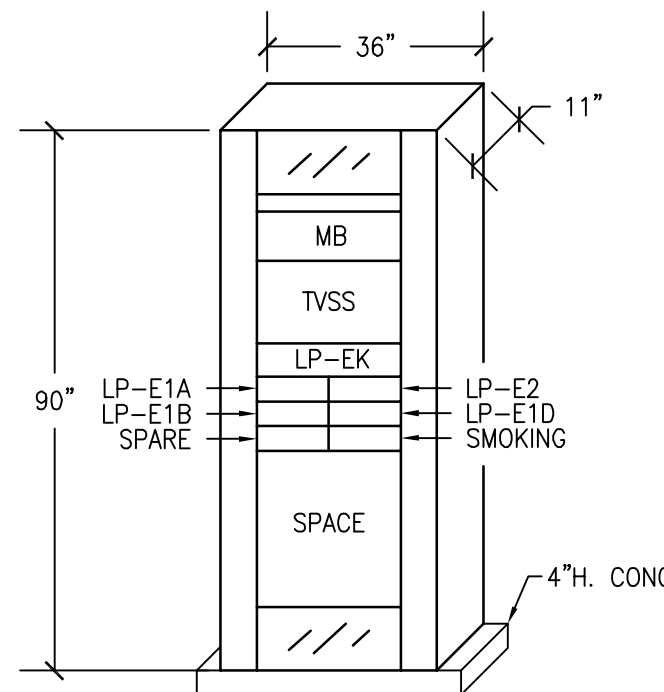
C/H 2100
EX. MOTOR CONT. CENTER MCP-E1
480Y/277V-3PH-4W



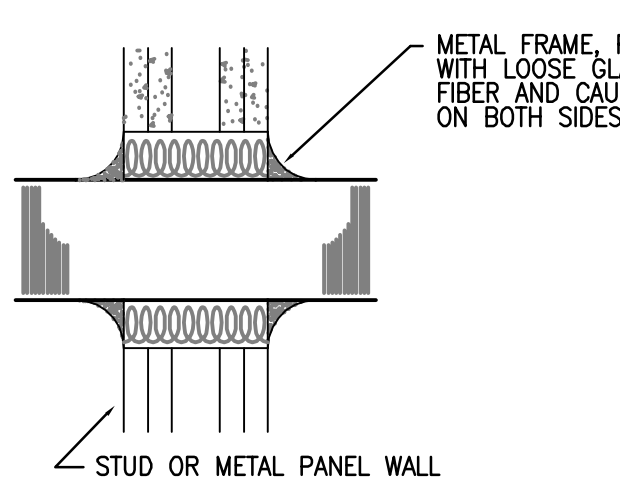
C/H 2100
EX. MOTOR CONT. CENTER MCP-C
480Y/277V-3PH-4W



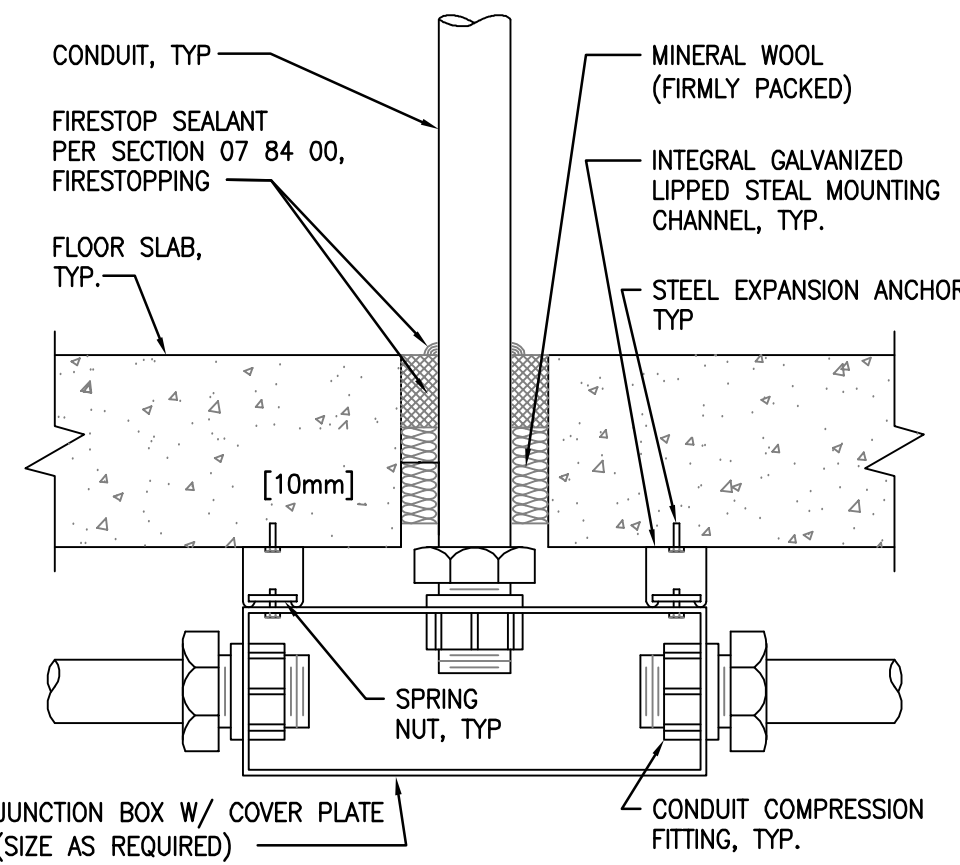
C/H 2100
EX. MOTOR CONT. CENTER MCP-EG
480Y/277V-3PH-4W



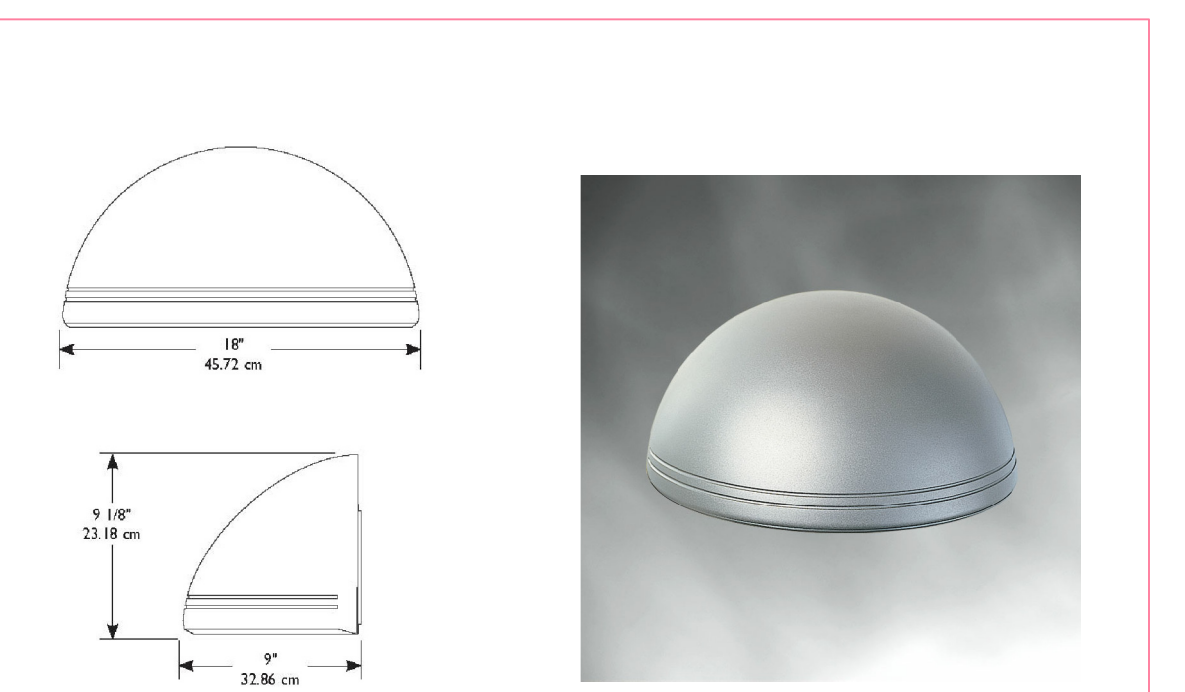
NEW DIST. PANEL 'DP1'
SCALE: 3/8" = 1'-0"



TYPICAL CONDUIT AND WALL PENETRATIONS
SCALE: NONE



FLOOR SLAB PENETRATION DETAIL
NTS



CONSTRUCTION: SINGLE PIECE DIE CAST ALUMINUM HOUSING, SILICONE GASKETED DOOR.

FINISHES: TGIC BRONZE POWDER COAT PAINT.

LISTINGS: UL1598 FOR WET LOCATIONS.

LED COLOR: 4000K, 350mA CURRENT, TYPE 3 DISTRIBUTION.

VOLTAGE: 120V

WATTS: 35W

MOUNT AT EXISTING FIXTURE MOUNTING HEIGHT.

E
W1

CONSULTANTS:



ENGINEER:



Drawing Title SYMBOLS AND DETAILS

Project Title
CORRECT ELECTRICAL DEFICIENCIES - B320

Location
4100 WEST THIRD STREET
DAYTON, OH 45428

Date
12-17-2012

Checked
MSG

Drawn
SC

Project Number
552-13-304

Building Number
320

Drawing Number
320E001

Dwg. 6 of 14

Office of
Construction
and Facilities
Management

